



## XERTON

Preparation Date 20-Nov-2015

Revision date 28-Nov-2016

Revision Number: 3

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Identification of the product

Product code HBX02  
Product Description: XERTON  
Synonyms Ethofumesate 417 g/l SC  
Pure substance/preparation Preparation

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Herbicide

#### 1.3 Details of the Supplier of the Safety Data Sheet

Supplier UPL Europe Ltd  
The Centre  
Birchwood Park  
Warrington  
WA3 6YNCheshire  
UK  
Tel. : +44 (0) 1925 819999  
Fax : +44 (0) 1925 856075  
E-mail address info.uk@uniphos.com

#### 1.4 Emergency Telephone Number

Emergency telephone number **(CARECHEM 24): +44 (0) 1235 239670**  
United Kingdom NHS no. 111

## 2. Hazards Identification

### 2.1 Classification of the mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Human Health**

Skin sensitization Category 1 - H317

**Environment**

Chronic aquatic toxicity Category 3 - H412

For the full text of the H-Statements mentioned in this Section, see Section 16

### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



**Signal Word**

**WARNING**

**Hazard Statements**

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/ container in accordance with national regulation

**EU Specific Hazard Statements**

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

### 2.3 Other Hazards

No information available

### 3. Composition/information on Ingredients

#### 3.2. MIXTURES

Chemical name	EC No	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
Ethofumesate	247-525-3	26225-79-6	30 - 40	-	Aquatic Chronic 2 (H411)	no data available
Ethylene glycol	203-473-3	107-21-1	5 - 10	-	Acute Tox. 4 (H302)	no data available
Fatty Alcohol Ethxylate	-	68131-39-5	1 - 5	-	Eye Dam. 1 (H318) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	no data available
Tributyl phosphate	204-800-2	126-73-8	< 1	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Carc. 2 (H351)	no data available
1,2-Benzisothiazolin-3-one	220-120-9	2634-33-5	< 1	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

## 4. First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
<b>Eye contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If eye irritation persists, consult a specialist
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
<b>Ingestion</b>	Do NOT induce vomiting Clean mouth with water Call a POISON CENTER or doctor/physician if exposed or you feel unwell
<b>Inhalation</b>	Move to fresh air Call a POISON CENTER or doctor if you feel unwell

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire

### 5.2 Special hazards arising from the substance or mixture

<b>Special Hazard</b>	Burning produces obnoxious and toxic fumes
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### 5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas  
Avoid contact with skin and eyes

### 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so  
Do not allow material to contaminate ground water system  
Do not flush into surface water or sanitary sewer system

### 6.3 Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

#### **Handling**

Provide adequate ventilation  
Ensure that eyewash stations and safety showers are close to the workstation location

#### **Hygiene Measures**

Avoid contact with skin and eyes  
Wash hands thoroughly after handling  
Use only outdoors or in a well-ventilated area

### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of the reach of children  
Keep only in the original container/package in a cool well-ventilated place

### 7.3 Specific end uses

No information available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control Parameters

#### Exposure Limits

Apply technical measures to comply with the occupational exposure limits

Chemical name	Eu	United Kingdom	France	Spain	Germany
Ethylene glycol	S* TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup>	STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> Skin	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	S* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup>	MAK: 10 ppm MAK: 26 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 52 mg/m <sup>3</sup> Skin TWA: 10 ppm TWA: 26 mg/m <sup>3</sup>
Tributyl phosphate		STEL: 5 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 0.2 ppm TWA: 2.5 mg/m <sup>3</sup>	TWA: 0.2 ppm TWA: 2.2 mg/m <sup>3</sup>	MAK: 1 ppm MAK: 11 mg/m <sup>3</sup> Ceiling / Peak: 4 ppm Ceiling / Peak: 44 mg/m <sup>3</sup> Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
Ethylene glycol 107-21-1 ( 5 - 10 )	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> Skin	Ceiling: 100 mg/m <sup>3</sup>	Skin STEL: 104 mg/m <sup>3</sup> TWA: 52 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 50 mg/m <sup>3</sup> STEL: 40 ppm STEL: 100 mg/m <sup>3</sup> Skin	TWA: 10 ppm TWA: 26 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> Skin
Tributyl phosphate 126-73-8 ( < 1 )		TWA: 0.2 ppm		TWA: 0.2 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 0.4 ppm STEL: 5 mg/m <sup>3</sup>	TWA: 0.2 ppm TWA: 2.5 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Ethylene glycol	Skin STEL 20 ppm STEL 52 mg/m <sup>3</sup> TWA: 10 ppm TWA: 26 mg/m <sup>3</sup>	Skin STEL: 20 ppm STEL: 52 mg/m <sup>3</sup> TWA: 10 ppm TWA: 26 mg/m <sup>3</sup>	STEL: 50 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> Skin Ceiling: 25 ppm STEL: 104 mg/m <sup>3</sup> STEL: 40 ppm	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> Skin
Tributyl phosphate	Skin STEL 5 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup>	Skin STEL: 0.4 ppm STEL: 5 mg/m <sup>3</sup> TWA: 0.2 ppm TWA: 2.5 mg/m <sup>3</sup>		TWA: 0.2 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 0.6 ppm STEL: 5 mg/m <sup>3</sup>	TWA: 0.2 ppm
Component	Italy	Portugal	Netherlands	Finland	Denmark
Tributyl phosphate 126-73-8 ( < 1 )	(ACGIH:) 70 % of baseline red blood cells discretionary Cholinesterase activity Nonspecific				

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2 Exposure Controls

#### Engineering controls

Ensure adequate ventilation, especially in confined areas

#### Personal Protective Equipment

<b>Eye protection</b>	Safety glasses with side-shields.
<b>Skin protection</b>	Long sleeved clothing.
<b>Hand protection</b>	Protective gloves.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Environmental exposure controls** No information available

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	yellow-orange, white	
<b>Physical state</b>	Liquid suspension concentrate (SC)	
<b>Odor</b>	characteristic	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	8.7	(1% aq)
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	> 110 °C	
<b>Flammability (solid, gas)</b>	Not applied	
<b>Surface tension</b>	38.5 mN/m	
<b>Specific gravity</b>	1.11 kg/L	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	228 mPas	Dynamic viscosity
<b>Oxidizing properties</b>	Non oxidizing	
<b>Explosive properties</b>	According to the chemical structure no explosion reaction is expected	

### 9.2 OTHER INFORMATION

**VOC Content** No information available

## 10. Stability and Reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition

### 10.5 Incompatible Materials

Acids

Strong oxidizing agents

### 10.6 Hazardous Decomposition Products

Burning produces obnoxious and toxic fumes



## 11. Toxicological Information

### 11.1 Information on Toxicological Effects

#### Acute toxicity

#### Local effects

##### Inhalation

There is no data available for this product.

##### Eye contact

No eye irritation.

##### Skin contact

No skin irritation.

##### Ingestion

There is no data available for this product.

#### LD50 Oral

> 2000 mg/kg (rat)

#### LD50 Dermal

> 4000 mg/kg (rat)

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethofumesate 26225-79-6	> 2000 mg/kg (rat)	> 2000 mg/kg ( Rat )	> 0.16 mg/L ( Rat ) 4 h, whole body
Ethylene glycol 107-21-1	= 4000 mg/kg ( Rat )		
Tributyl phosphate 126-73-8	= 3 g/kg ( Rat )	> 3100 mg/kg ( Rabbit )	= 28 g/m <sup>3</sup> ( Rat ) 1 h

#### Chronic toxicity

#### Skin Corrosion/Irritation

No information available.

#### Sensitization

May cause sensitization by skin contact.

#### Carcinogenic effects

No information available

#### Mutagenic effects

No information available

#### Reproductive effects

No information available

#### STOT - Single Exposure

No information available.

#### STOT - Repeated Exposure

No information available.

## 12. Ecological Information

### 12.1 Toxicity

EC50/72h/algae = 171 mg/L  
 EC50/48h/daphnia = 47 mg/L  
 LC50/fish/96 h = > 28.8 mg/L

### 12.2 Persistence and Degradability

No information available

### 12.3 Bioaccumulative Potential

No information available

Chemical name	Log Pow
Ethofumesate	2.7
Ethylene glycol	-1.93
Tributyl phosphate	2.5
1,2-Benzisothiazolin-3-one	1.3

### 12.4 Mobility in Soil

No information available.

### 12.5 Results of PBT and vPvB Assessment

No information available

### 12.6 Other Adverse Effects

No information available.

## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

<b>Waste from Residues/Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.
<b>EWC waste disposal No</b>	020108 - agrochemical waste containing dangerous substances.
<b>OTHER INFORMATION</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

## 14. Transport Information

### ADR/RID

14.1 UN-No Not regulated

14.2 Proper shipping name

14.3 Hazard class

14.4 Packing group

14.5 Environmental Hazard

14.6 Special Provisions

### IMDG/IMO

14.1 UN-No Not regulated

14.2 Proper shipping name

14.3 Hazard class

14.4 Packing group

14.5 Environmental Hazard

14.6 Special Provisions

### IATA/ICAO

14.1 UN-No Not regulated

14.2 Proper shipping name

14.3 Hazard class

14.4 Packing group

14.5 Environmental Hazard

14.6 Special Provisions

## 15. Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n° 17335

- To avoid risks to man and the environment, comply with the instructions for use

### International Inventories

TSCA Complies

EINECS/ Complies

ELINCS

DSL/NDSL Complies

PICCS Complies

ENCS Complies

China -

AICS Complies

KECL Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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**16. Other Information****Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H351 - Suspected of causing cancer  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

**Revision date** 28-Nov-2016

**Revision note** Update section 3

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information contained is based on our knowledge of the product at the date of publishing.  
It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.  
Users are advised of possible additional hazards when the product is used in applications for which it was not intended.  
This sheet shall only be used and duplicated for prevention and Safety purposes.  
For rates and use recommendations, refer to the information displayed on the packaging.  
It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

**End of Safety Data Sheet**